

**ABSTRACT OF THE DISCLOSURE**

A spherical lens is used to focus and direct light into an optical fiber for transmitting the focused light to an energy converter, a lighting or heating system, or a lighting or heating apparatus. The collected light may be converted to electricity by  
5 powering a steam turbine generator, thermal photo-voltaic cells, or the like. The collect light may also be supplied as a centralized light source to reflective lighting fixtures connected by fiber optics.